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PREVENTING COMMON ERRORS

Refer to the unsatisfactory reason listed on your Final Report.

The following unsatisfactory specimen criteria have been established in accordance with the standards provided by the Clinical and Laboratory Standards Institute in regard to dried blood spot specimen collection for Newborn Screening (Document NBS01-Ed7). Specimens are reported as unsatisfactory according to the following descriptions.

UNSAT 1	IMPROPERLY	Apply a heel warmer for 5 minutes prior to collection to increase blood flow.	
	COLLECTED	Angle the heel with puncture side down, apply gentle pressure, and allow a large drop of blood to form.	
UNSAT 2	SCRATCHED / ABRADED	Do not apply samples from capillary tubes or other devices.	
		Lift filter paper away from heel cleanly between circles to prevent smearing.	
UNSAT 3	WET	Do not mail before completely dry, allowing a minimum of 3 hours.	
UNSAT 4	OVERSATURATED	Do not apply samples from capillary tubes or other devices.	
		Lift filter paper away from heel cleanly between circles to prevent smearing.	
UNSAT 5	CONTAMINATED	No "milking" – this causes hemolysis, excess serum, and other tissue fluids in the sample.	
		Fill out collection form prior to sample collection.	
UNSAT 6	NO BLOOD	Do not mail testing cards with empty collection circles.	
UNSAT 7	INSUFFICIENT INFO	Double check! Do not mail testing cards with missing essential information.	
UNSAT 8	OLD SAMPLE (>10 DAYS		
	IN TRANSIT)	Perform regular checks to ensure that dry collection cards are mailed/sent by courier ASAP.	
UNSAT 9	INFANT > 6 MONTHS	Do not collect NBS samples on infants > 6 months old.	
UNSAT 10	OUTDATED FILTER	Check expiration date on filter paper card before use.	
	PAPER CARD	Discard all outdated filter paper cards.	
UNSAT 11	INSUFFICIENT	Apply a heel warmer for 5 minutes prior to collection to increase blood flow.	
	QUANTITY	Angle the heel with puncture side down, apply gentle pressure, and allow a large drop of blood to form.	
UNSAT 14	PARENT REFUSAL	NBS must be notified of a parent refusal. Complete this form: https://tinyurl.com/NBSparentrefusal	
UNSAT	TESTING INCONCLUSIVE	Results are inconsistent during testing, causes may vary.	
12, 15,16	TESTING INCONCLUSIVE	Expect follow-up from NBS-DBS Short Term Follow-Up nurse team, or contact us at (804) 864-7711.	

NEWBORN SCREENING SPECIMEN COLLECTION				
1 PREPARE	2 COLLECT	3 DRY		
Apply a heel warmer to newborn's heel 5 minutes prior to collection to increase blood flow for easier sample collection. Prevent unnecessary contamination of sample by completing ALL information on form prior to collection.	Clean site with alcohol wipe (70% isopropanol) and let airdry completely. Puncture the heel on the side and wipe away the first drop of blood. Angle the heel with puncture side down and allow a large drop of blood to form. Apply to one side of collection device only. Lightly touch filter paper to the large blood drop and allow to saturate completely through the filter paper before lifting filter paper cleanly to prevent smearing of blood sample or damage to filter paper. Apply gentle pressure to the heel around the puncture site to enhance blood flow. Use single blood drops to fill each circle, be certain to not overlay.	Dry filter paper on a clean, dry, non-absorbent surface for a minimum of THREE hours at 18-25° C (64-77° F) or room temperature. DO NOT use a drying device to dry the samples. Drying samples in too warm of a location can lead to degradation and false positive results.		
Ensure the demographic	each circle, be certain to not overlay. c information is accurate and complete. Check both sides of t			







For more information on proper collection techniques, contact the Virginia Newborn Screening Follow-Up Program: Virginia Newborn Screening Program